

**METHOD AND APPARATUS FOR PROVIDING TRANSMIT DIVERSITY  
WITH ADAPTIVE BASIS**

**ABSTRACT OF THE DISCLOSURE**

- 5        A method and apparatus are provided that uses the feedback information from an ARQ signal that is received to control the transmit diversity of a transmitter. The method provides for improved performance over some existing ARQ plus open loop transmit diversity schemes in terms of bit-error rate for a given  $E_b/N_o$ . Furthermore, the method does not require extra signaling used by closed loop TD schemes.

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